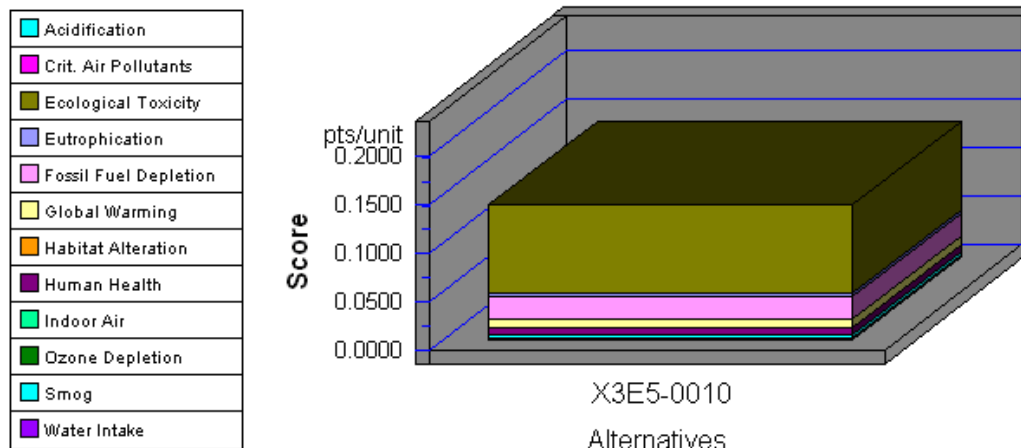


BEES Results: Polystyrene Foam Recyclers

Functional Unit: Transforming 10 cubic yards of polystyrene foam waste into feedstock for new product

Environmental Performance



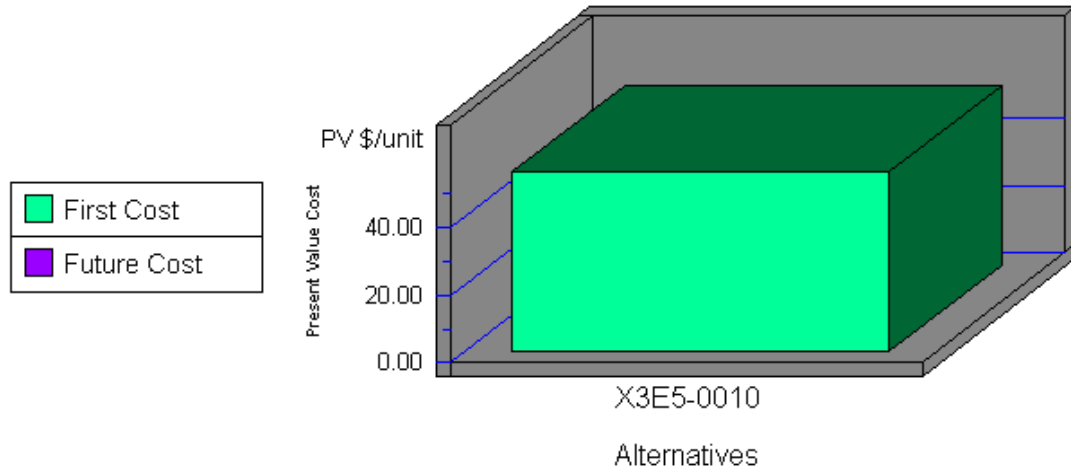
Note: Lower values are better

Category	X3E5-0010
Acidification--5%	0.0000
Crit. Air Pollutants--6%	0.0004
Ecolog. Toxicity--11%	0.0908
Eutrophication--5%	0.0027
Fossil Fuel Depl.--5%	0.0246
Global Warming--16%	0.0083
Habitat Alteration--16%	0.0000
Human Health--11%	0.0075
Indoor Air--11%	0.0000
Ozone Depletion--5%	0.0000
Smog--6%	0.0033
Water Intake--3%	0.0024
Sum	0.1400

BEES Results: Polystyrene Foam Recyclers

Functional Unit: Transforming 10 cubic yards of polystyrene foam waste into feedstock for new product

Economic Performance

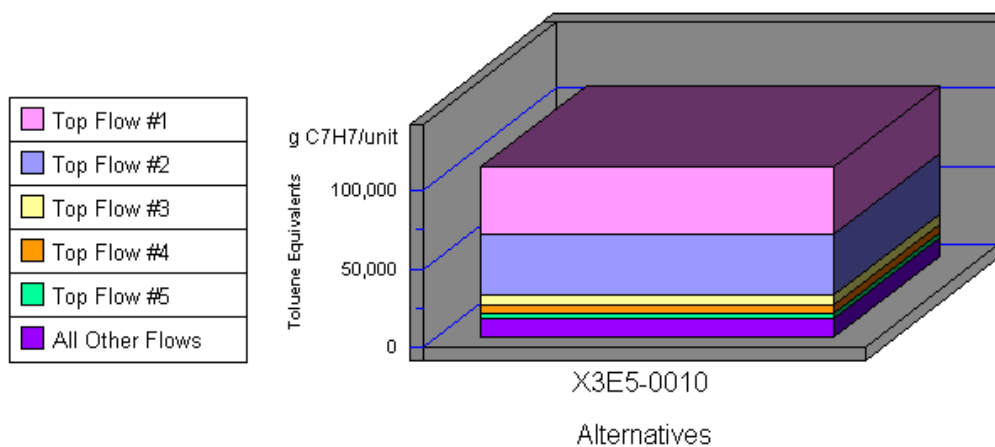


*No significant/quantifiable durability differences are expected among competing alternatives. Therefore, future costs were not calculated.

BEES Results: Polystyrene Foam Recyclers

Functional Unit: Transforming 10 cubic yards of polystyrene foam waste into feedstock for new product

Human Health by Sorted Flows*



Note: Lower values are better

Category	X3E5-0010
Cancer--(w) Arsenic (As3+, As5+	43,198.22
Cancer--(w) Phenol (C6H5OH)	38,165.68
Cancer--(a) Dioxins (unspecifie	6,816.09
Cancer--(a) Arsenic (As)	4,686.56
Cancer--(a) Simazine	3,924.60
All Others	12,005.11
Sum	108,796.27

*Sorted by five topmost flows for worst-scoring product

BEES Results: Polystyrene Foam Recyclers

Functional Unit: Transforming 10 cubic yards of polystyrene foam waste into feedstock for new product

Expanded Polystyrene (EPS) Foam Recycling Products		
Impacts	Units	X3E5-0010
Acidification	millimoles H ⁺ equivalents	3.93E+03
Criteria Air Pollutants	microDALYs	1.24E+00
Ecological Toxicity	g 2,4-D equivalents	6.74E+02
Eutrophication	g N equivalents	1.03E+01
Fossil Fuel Depletion	MJ surplus energy	1.74E+02
Global Warming	g CO ₂ equivalents	1.32E+04
Habitat Alteration	T&E count	0.00E+00
Human Health	g C ₇ H ₈ equivalents	1.09E+05
Indoor Air Quality	g TVOCs	0.00E+00
Ozone Depletion	g CFC-11 equivalents	2.52E-04
Smog	g NO _x equivalents	8.36E+01
Water Intake	liters of water	4.18E+02
Functional Unit	-----	Transforming 10 cubic yards of polystyrene foam waste into feedstock for new product

1 Following are more complete descriptions of units: Acidification: millimoles of hydrogen ion equivalents; Criteria Air Pollutants: micro Disability-Adjusted Life Years; Ecological Toxicity: grams of 2,4-dichlorophenoxy-acetic acid equivalents; Eutrophication: grams of nitrogen equivalents; Fossil Fuel Depletion: megajoules of surplus energy; Global Warming: grams of carbon dioxide equivalents; Habitat Alteration: threatened and endangered species count; Human Health: grams of toluene equivalents; Indoor Air Quality: grams of Total Volatile Organic Compounds; Ozone Depletion: grams of chloroflourocarbon-11 equivalents; Smog: grams of nitrogen oxide equivalents; and Water Intake: liters of water.